



## Industrial Device Servers

- ▶ Connect enterprise (ERP, MES) systems to factory floor devices without disturbing existing control networks
- ▶ Allow remote firmware upgrades, saving money and time over manual upgrades
- ▶ IAP version supplies many industrial communication protocols
- ▶ Configurable serial interface supports RS-232, RS-422, or RS-485
- ▶ 10Base-T/100Base-TX Ethernet (RJ45)
- ▶ Isolated serial and Ethernet ports
- ▶ UL-approved for hazardous locations Class I, Div. 2
- ▶ RoHS compliant



## Remotely Configure, Program, Monitor, and Manage: PLCs, drives, process controls, power monitoring equipment, barcode scanners, and other factory floor serial devices

The XPress DR and XPress DR-IAP Device Servers enable virtually any industrial device with serial capability to be connected to a new or existing Ethernet network.

By encapsulating serial data and transporting it over Ethernet, the XPress DR/DR-IAP establishes virtual serial links over Ethernet. By using these units, limited-distance, point-to-point, direct serial connections can now be extended within the plant, throughout the facility, or across the global enterprise.

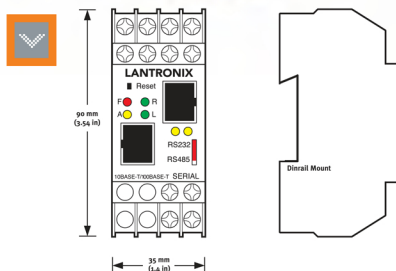
When used in conjunction with an OPC server, most Windows® based HMI, SCADA, and PC-based control applications have full access to information in the connected device. Existing COM-port based Windows® applications can access network-enabled devices using our Com Port Redirector software. Redirector software allows the creation of virtual serial ports, which can be mapped to the remote device servers over Ethernet and connected to the XPress DR and XPress DR-IAP.

The XPress DR-IAP installable communication drivers allow specific support for various industrial communication protocols. With native support for these protocols, devices that previously allowed only one connection can now support multiple connections simultaneously.

Flexible configuration options allow the unit to be set up locally using the serial port, or remotely over Ethernet using Telnet or a common web browser. Included Windows® based configuration software simplifies the process of installing communication drivers and configuring them for use with attached devices. Flash memory provides for maintenance-free, non-volatile storage, and allows future system upgrades.

Packaged in a rugged DIN-rail mount case and featuring 2000V galvanic isolation, 1500V Ethernet isolation, a wide 0° to 60°C operating range, and a 9-30VDC/9-24VAC power input, the XPress DR and XPress DR-IAP are ideal for any industrial application.





## Features

### Serial Interface

Interface: RS-232, RS-422, or RS-485  
 Connector: Screw terminals or RJ45  
 Data Rates: 300 to 115,200 bps  
 Characters: 7 or 8 data bits  
 Parity: odd, even, none  
 Stop Bits: 1 or 2  
 Flow Control:  
 Software: XON/XOFF  
 Hardware: RTS/CTS  
 Installable Serial Protocols (XPress DR-IAP only)

### Network Interface

Standards: ARP, UDP/IP, TCP/IP, ICMP, SNMP, BOOTP, DHCP, TFTP, Telnet, and HTTP  
 Interface: 10Base-T/100Base-TX Ethernet  
 Connector: RJ45  
 Installable application layer protocols (XPress DR-IAP only)

### Indicators

Ready, Fault/Configuration, Activity, Link,  
 Serial Transmit Data, Serial Receive Data

### Management

SNMP, serial, Telnet, and HTTP (web browser)

### Isolation

Ethernet: 1500 Vrms  
 Serial: 2000 Vrms

### Power

Input: 9 to 30VDC/9-24VAC, 3W maximum  
 Connector: Screw terminals for power and ground

### Environmental (Operating)

Temperature: 0° to 60°C (32° to 140°F)  
 Humidity: 20% to 90% RH, non-condensing

### Packaging

Mounting: DIN-rail (35 mm)  
 Material: High-impact plastic  
 Dimensions: 60 x 36 x 90 mm (2.4 x 1.4 x 3.54 in)

### Agency Approvals

UL, CSA, TUV, FCC, CE

### Warranty

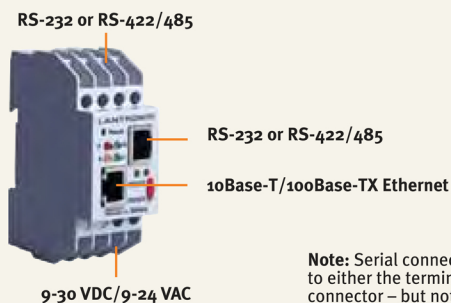
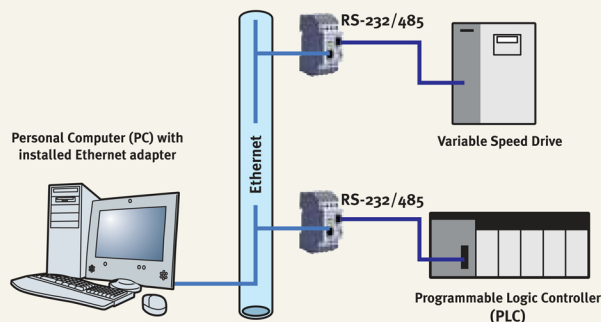
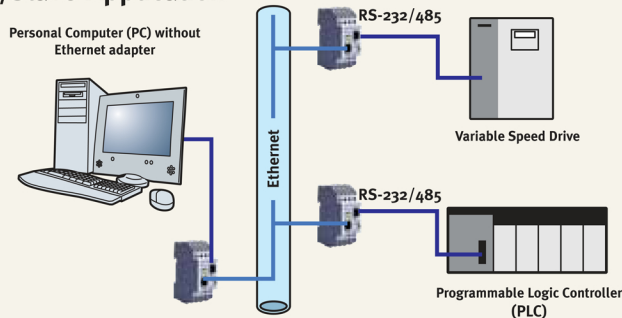
1-year limited warranty

### Software

Included Windows® 95/98/ME/NT/2000-based configuration software simplifies initial setup

## Example Configurations

### Master/Slave Application



**Note:** Serial connections may be attached to either the terminal block or to the RJ45 connector – but not both simultaneously.

### Shipping Dimensions (L x W x H)

187.3 x 228.6 x 111 mm (7.375 x 9.0 x 4.375 in)

### Part Numbers

XSDRSN-02 XPress-DR: standard part  
 XSDRIN-02 XPress-DR-IAP with installable industrial protocols

Industrial Device Server, DIN-rail mounting, serial interface (RS-232, RS-422, RS-485 – terminal block or RJ45), 10Base-T/100Base-TX Ethernet, diagnostic LEDs, 9VDC to 30VDC power input, CD-ROM with configuration tools, installable communication drivers, and Installation Guide.

# LANTRONIX®

15353 Barranca Parkway | Irvine | CA 92618 | USA | Tel: 800.422.7055 | Fax: 949.450.7232 | [www.lantronix.com](http://www.lantronix.com)

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